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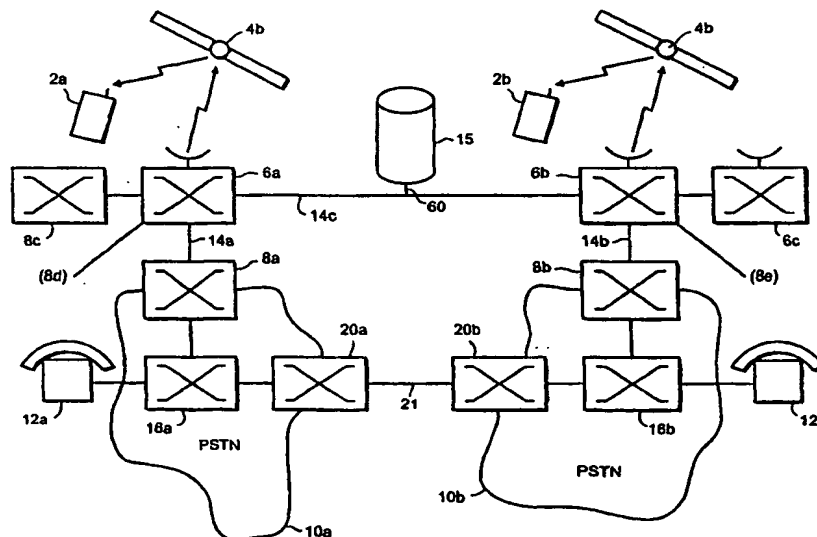
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(54) Title: COMMUNICATION METHOD AND APPARATUS WITH INTERFERENCE MITIGATION



(57) Abstract

A satellite communications system comprising at least one satellite (4) in orbit about the Earth, and being for receiving a user uplink signal from a user terminal (2) adjacent the Earth, in the presence of co-channel interference from at least one interference source (121) adjacent the Earth, further comprising means for interference mitigation, characterised in that said interference mitigation means comprises an interference store (250) for storing interference data characterising at least a first signal, and means (270, 232, 234, 236) for iteratively forming an interference estimate from said data in accordance with at least one variable parameter, for locating a value thereof to maximise the mitigation of said uplink signal, and for processing said uplink signal in accordance with said value and said interference data.